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Notice of Allowability	Application No.	Applicant(s)	
	09/950,091	RICH, JOE G.	
	Examiner	Art Unit	
	Robert Hodge	1746	
The MAILING DATE of this communication appearable claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due cou	rse. THIS
1. This communication is responsive to <u>3/8/04</u> .			
2. The allowed claim(s) is/are <u>7-9,15-18,22-33 and 40-46.</u>			
3. \boxtimes The drawings filed on <u>18 January 2002</u> are accepted by the	e Examiner.		
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No		from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the require	ements
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 			
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	5. Notice of Informal Page 19. Interview Summary Paper No./Mail Date 18), T. Examiner's Amendm 8. Examiner's Stateme 9. Other	(PTO-413), e nent/Comment	

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see Remarks/Arguments, filed 3/8/05, with respect to the objections to claims 7-9, 15-18, 22-33, and 40-46 have been fully considered and are persuasive. The objections to claims 7-9, 15-18, 22-33, and 40-46 have been withdrawn. Furthermore the examiner acknowledges that claims 1-6, 10-14, 19-21, and 34-39 have been canceled and claims 7-9, 15-18, 22-33, and 40-46 have now been amended to include all of the limitations of the canceled claims. And therefore the claims now read over the prior art and the application is in condition for allowance.

Allowable Subject Matter

- 2. Claims 7-9, 15-18, 22-33, and 40-46 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: The prior art made of record fails to teach a system containing a fuel cell portion in combination with an electrolyzer portion where both portions are dependent on one another and operate simultaneously, with fuel and oxidant tanks that have pressure relief valves as well as flow control valves used to regulate the gas flow into the fuel cell portion and that the system also uses an electrolyte recovery unit. Consequently the prior art also fails to teach a method for operating a system with the above listed structure. The prior art does allow for regenerative type fuel cells, which can be operated as a fuel cell or an electrolyzer but not both at the same time. And the prior art allows for an electrolyzer to be operated separately from a fuel cell in the same system where the two do not

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depend from one another, but not in combination with one another or with the valve configuration as previously discussed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - a. U.S. Patent No. 6,833,207 to Joos et al. teaches a regenerative fuel cell system that has a separate fuel cell and electrolyzer compartment which feed one another and depend from one another
 - b. U.S. Patent Nos. 4,322,270 & 4,276,145 to Skala teach a system containing separate fuel cell stacks and electrolyzer stacks
 - c. U.S. Patent No. 3,180,813 to Wasp et al. teaches a fuel cell used to generate electricity that is provided to an electrolyzer
 - d. U.S. Patent No. 2,384,463 to Gunn et al. teaches a system containing separate fuel cell stacks and electrolyzer stacks

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert Hodge whose telephone number is (571) 272-2097. The examiner can normally be reached on 8:00am - 4:30pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on (571) 272-1414. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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